

AMERITRON® AMATEUR RADIO CATALOG

800 WATTS OUT . . . \$799!

AMERITRON's AL-811H Linear Amplifier . . . from four fully neutralized 811A tubes

Only the AMERITRON AL-811H gives you four fully neutralized 811A transmitting tubes. You get absolute stability and superb performance on higher bands that can't be matched by un-neutralized tubes.

AMERITRON mounts the 811A tubes vertically -- not horizontally -- to prevent hot tube elements from sagging and shorting out.

Others, using potentially damaging horizontal mounting, require hard-to-find 811A tubes to retard harmful sagging and shorting.

Powerful 20 CFM computer grade fan -- not an open frame phonograph motor -- draws in cool air to pressurize the cabinet and efficiently cool your 811A tubes for an extra long life.

You also get efficient full-size heavy duty tank coils, computer grade capacitors, heavy duty high silicon core power transformer, slug tuned input coils, operate/standby switch, transmit LED, ALC, dual meters, QSK compatibility with QSK-5 option and much more!

SPECIFICATIONS:

- **Output power:** 800 Watts PEP, 600 Watts CW.
- **All Band Operation:** Covers 160-15 Meters including WARC bands. Can be

AL-811H

\$799

Suggested Retail

Best Seller!

*Call your dealer
for your best price!*

user modified for 12 and 10 Meters.

• Four 811A

Tubes: Uses four rugged, fully neutralized low cost 811A PA tubes.

• **Vertical Tube Mounting:** Prevents shorting of tube filament/grid, prolongs tube life.

• Fully Neutralized:

Improves stability and performance on higher bands.

• **Input Tune Circuit:** Adjustable rear panel slug tuned input circuit.

• **ALC Control:** Built-in adjustable ALC control.

• **Vernier Reduction Drives:** Tuning and loading reduction drives make tuning smooth and easy.

• **Dual Illuminated Meters:** Monitor vital operating functions.

• **Heavy Duty Power Supply:** 17 pounds, high silicone steel core transformer and computer grade filter capacitor gives 1700 Volts high voltage at no load and 1500



Volts at full load.

Multi-Voltage Operation: User selectable for 100/110/120/210/220/230 VAC operation. Shipped with transformer installed and wired for 120 VAC for domestic model or 240 VAC for export model.

• **Air-Cooled:** Quiet pressurized ventilation keeps tubes safely cooled.

• **QSK Compatible:** Optional external electronic pin diode Transmit/Receive switch.

• **QSK-5, \$349.** See page 12 for details.

• **Attractive Lexan front decal**

• **One Year AMERITRON warranty.**

• **Dimensions:** 8 1/4"H x 13 1/4"W x 15 1/2"D inches.

• **Operating Weight:** 32 lbs.

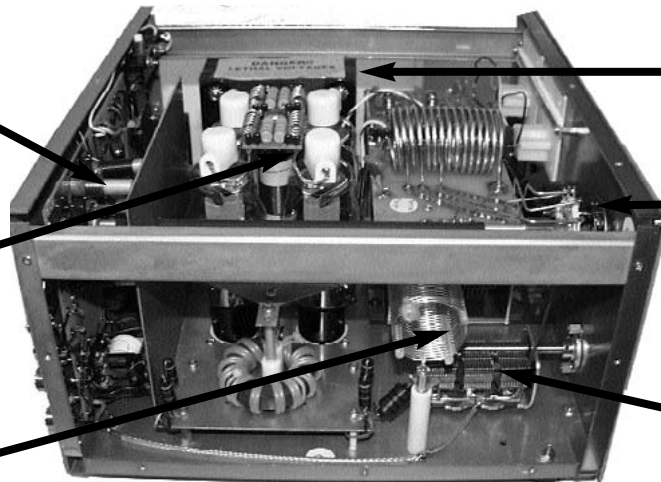
• **Made in the U.S.A.**

A look inside AMERITRON's AL-811H

Pi-Network Tuned input provides 50 Ohm load for your rig.

Four fully neutralized and rugged 811A transmitting tubes vertically mounted.

Output tank circuit with optimum "Q" for each band



Heavy duty power supply: 17 lb. high silicone steel transformer and computer grade capacitors.

Heavy duty band switch

Pi-network gives smooth tuning and excellent harmonic suppression.

AMERITRON® . . . the world's high power leader!

AL-811 . . . 600 WATTS . . . \$649!

More hams use Ameritron AL-811 amplifiers than any other amplifier in the world . . . The AL-811 has earned a worldwide reputation for legendary quality, flawless performance, proven reliability and superb customer service . . .



Ameritron's AL-811 linear amplifier gives you plenty of power to bust through QRM!

You get a quiet desktop linear that's so compact it'll slide right into your operating position -- you'll hardly know it's there . . . until QRM sets in. And you can conveniently plug it into your nearest 120 VAC outlet -- no special wiring needed.

You get three tough 811A transmitting tubes, extra heavy duty power supply, all HF band coverage, pressurized ventilation, tuned input, dual illuminated meters, adjustable ALC and much more for an incredible \$649!

The First 600 Watts makes the difference

The AL-811 gives you 600 Watts PEP output -- that's nearly 2 full S-units over your barefoot rig.

That could mean the difference between hearing, "You're Q-5 armchair copy" and "Sorry, can't copy you, too much QRM."

Now you won't have to stand aside while the "big guns" steal your DX. You'll be able to log some of those stations first.

The AL-811 gives you a powerful punch at a price that's easy on your wallet.

All Band, All mode Coverage
AL-811 covers all HF bands.

There's no compromise on WARC and most MARS bands -- you get a 100% rated output.

Operate AL-811 on all modes. Get 600 Watts output PEP SSB and 500 Watts output CW. You even get 300 Watts on demanding continuous carrier modes like RTTY, SSTV, FM.

How the low cost 811A tube resists premature failure -- even when your amplifier is mistuned

First, they're constructed with widely spaced elements that minimize the chance of elements touching and causing a short -- even if the

plate gets hot enough to melt.

Second, they use a directly heated thoriated tungsten filament cathode that prevents the electron emitting layer from instantly stripping off

of total capacitance (four 270 ufd, 450 volt capacitors) produces 1500 Volts under full load and 1700 Volts no load. That's excellent high voltage regulation!

Rectifier diodes are rated for a massive surge current of 200 amps-- won't blow even if you accidentally short the high voltage supply.

Wire wound, 7 Watt, 50 K Ohm equalizing resistors safely protect each filter capacitor -- not 2 Watt, 100 K Ohm carbon composition resistors that cause filter capacitors to explode or fail.

The Ameritron AL-811 power supply is built tough so you get peak performance year after year.

Tuned input provides excellent load for any rig

A Pi-Network tuned input provides a 50 Ohm load for your rig. Even fussy solid state rigs can deliver their full drive to the AL-811.

Low loss slug tuned coils -- tun-

ing a ball bearing vernier reduction drive makes plate tuning safe, precise and easy.

Quiet pressurized ventilation keeps your tubes safely cooled

A quiet blower pressurizes the cabinet with a large volume of air flow. It keeps the 811A tube temperature well below the tube manufacturer's rating -- even with a key down carrier at 400 Watts output -- without the overwhelming noise of oversized fans.

Two illuminated meters

Two illuminated meters give you a clear picture of your AL-811 operating conditions so you can tell right away if something is wrong.

The Grid Current meter continuously checks for improper loading. The other meter switches between high voltage and plate current to warn of abnormal conditions.

Ameritron exclusive Adapt-A-Volt™ power transformer

Too high line voltage stresses components and causes them to wear out and fail. Too low line voltage causes a "soft tube" effect -- low output and signal distortion.

Ameritron's exclusive Adapt-A-Volt™ power transformer has a special buck-boost winding that lets you compensate for stressful high line voltage and performance robbing low line voltage.

This makes your components last longer and gives you peak performance -- regardless of your line voltage.

Plus much, much more . . .

An Operate/Standby switch lets you run barefoot, but you can instantly switch to full power if needed.

A transmit LED tells you when your rig is keying your AL-811.

A 12 VDC keying relay makes it compatible with all solid state and tube rigs. A built-in back-pulse cancelling diode protects your rig's keying circuit.

Shielded RF compartment.

One year limited warranty. Compact 16Dx13 3/4 Wx8H inches. 30 pounds. UPS shippable. Shipped with transformer installed and wired for 120 VAC. Draws 8 amps at 120 VAC. Export model AL-811X wired for 240 VAC. Includes 10 and 12 meters.

Made in the USA

Made in USA. At Ameritron, we don't just ship amplifiers, we build them to last.

Ask a ham about us . . .

Ameritron has earned a worldwide reputation for legendary quality, flawless performance, proven reliability and superb customer service.

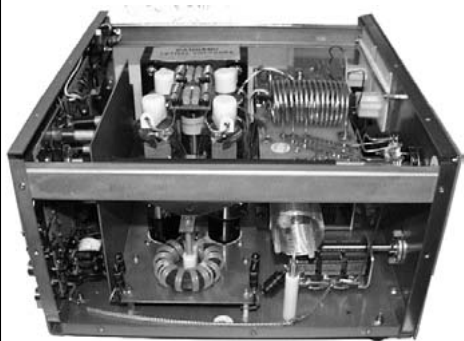
Call your dealer for your best price!

Get 600 Watts of real power and the best value for your money. Order your AL-811 today.

800 WATTS . . . \$799!

Ameritron gives you four 811A tubes, 800 Watts for the same price as the competitor's 3 tube 600 Watt unit . . .

Why settle for less power and pay more money?



Only the Ameritron AL-811H gives you four fully neutralized 811A transmitting tubes. You get absolute stability and superb performance on higher bands that can't be matched by un-neutralized tubes.

Ameritron mounts the 811A tubes vertically -- not horizontally -- to prevent hot tube elements from sagging and shorting out. Potentially damaging horizontal tube mounting by competing

amplifier companies requires special 811A tubes to retard sagging and shorting.

Quiet, powerful computer grade blower draws in plenty of cool air. It pressurizes the cabinet and efficiently cools your 811A tubes. Our air flow is so quiet, you'll hardly know it's there -- unlike noisy, oversized blowers.

Efficient, full size size heavy duty tank coils, full height computer grade capacitors, heavy duty silicon power transformer, slug tuned input coils, operate/standby switch, transmit LED, ALC, dual meters, QSK compatibility with Ameritron's QSK-5 plus much, much more!

-- even if mistuning causes a sudden, severe current overload.

The Ameritron AL-811 is excellent for the newcomer because it's tough enough to withstand momentary mistuning. And the tubes are so inexpensive that you can replace one for mere pocket change.

The Ameritron advantage: Extra heavy duty power supply gives you peak performance year after year

The heart of the AL-811 power supply is its heavy duty power transformer with a high silicon steel core weighing a hefty 17 pounds.

A full wave bridge using 52.5

able from the rear panel -- let you optimize performance. High quality low drift silver mica capacitors maintain proper tuning.

Output tank:

Optimum Q on each band

The low loss pi-network output tank of the AL-811 has been carefully designed for optimum Q on each band and built with top quality RF components.

The result is peak performance over each band, wide impedance matching range and exceptionally smooth tuning with efficiencies close to 70%. Even 3:1 SWR load won't damage tubes or tank components.

AMERITRON'S *four* 572B tubes ... 1300 Watts ... \$1445!

AMERITRON creates new class of Near Legal Limit™ amplifiers with the AL-572 ... you get nearly full legal SSB power output for 65% of the price of a full legal limit amplifier ... No one will ever know the difference ...



Near Legal Limit™

AL-572 **\$1445** Suggested Retail

Ameritron's new class of Near Legal Limit™ amplifiers give you nearly full legal SSB power output for 65% of the price of a full legal limit amplifier ... and no one will ever know the difference!

You get 1300 Watts PEP SSB nominal power out on amateur bands 160 - 15 M.

Four rugged 572B tubes give you near legal limit power and instant 3 second warm-up time.

This whisper quiet, desktop linear plugs into your nearest 120 VAC outlet — no special wiring needed.

You get ... Ameritron's exclusive Instantaneous RF Bias™, Dynamic ALC™, ParasiticKiller™, Step-Start™ Inrush Protection, ... heavy duty power supply ... fully neutralized tubes ... Pi/Pi-L network ... tuned input ... pressurized ventilation ... dual lighted Cross-Needle meters ... multi-voltage power transformer ... front panel ALC control ... 6:1 vernier reduction drives ... much more!

Four rugged 572B Tubes

The AL-572 uses four rugged fully neutralized 572B tubes. Each tube has a heavy duty Graphite Anode, low loss white Ceramic Base, superior Titanium Getter and legendary quality and ruggedness.

Ameritron's exclusive ParasiticKiller™ effectively suppresses all parasitic oscillations.

Near Legal Limit™ Power Output

You'll typically get 1300 Watts PEP SSB, 1000 Watts CW continuous, 1000 Watts 1/2 hour PEP two-tone test on all amateur bands from 160 through 15 Meters (WARC bands and 10 Meters with reduced performance — user modified for 10/12 Meters with license).

Instantaneous RF Bias™ eliminates heat
Ameritron's exclusive Instantaneous RF Bias™ completely turns off the 572B tubes between words and dots and dashes. It eliminates hundreds of watts wasted as heat to give you cooler operation and longer component life.

Dynamic ALC™ doubles average SSB power
Ameritron's exclusive Dynamic ALC™ gives you high level, low distortion RF processing. It can more than double your average SSB power.

Front panel control lets you adjust output power.

Heavy duty Power Supply

A heavy duty power supply using a high silicon steel transformer delivers 2500 volts at 0.7 amps with good regulation.

The plate supply uses a full wave doubler, 200 amp peak surge current diodes, 7 watt, 50 K ohm wire wound bleeder resistors and a bank of high quality computer grade capacitors totaling 26 ufd.

Step-Start Inrush Protection™

When you turn on your amplifier, a massive inrush current flows. Eventually this current will damage your amplifier.

Ameritron's Step-Start Inrush Protection™ limits damaging inrush current to your power supply and tube filament. This greatly extends the life of your amplifier components and tubes.

Pi/Pi-L Output Network

The AL-572 Pi/Pi-L output network gives you exceptionally smooth tuning, wide matching range, full band coverage and peak performance at all power levels.

Ball bearing vernier reduction drives on plate and load controls make tuning precise and easy. Detailed logging scales let you quickly return to your favorite frequency.

Tuned Input lets your rig deliver full output

A Pi-Network tuned input using slug tuned coils provides a good 50 ohm load for your rig. Even the fussiest solid state rig will deliver full power to your AL-572.

Whisper Quiet pressurized cooling

A whisper quiet internal fan draws in cool air over power supply components and pressurizes the tube compartment to remove heat for longest life.

Two lighted Cross-Needle Meters

Grid current, plate current and forward PEP output power are continuously monitored to tell you of improper loading and abnormal conditions.

A fourth scale switches among peak reflected power (and SWR), high voltage, ALC threshold and ALC output voltage.

Multi-Voltage Power Transformer

Ameritron's Multi-Voltage Power Transformer has a unique buck-boost winding. It lets you select from 14 primary voltages centered on 115 and 230 VAC.

You can match your AL-572 to your AC line voltage so you'll get peak performance and long component life — regardless of your line voltage.

QSK Compatible

For lightning fast QSK operation use the optional Ameritron electronic PIN diode QSK switch. Use the external QSK unit, QSK-5, \$349, or install the internal QSK-5PC board. Contact Ameritron.

Plus More!

An Operate/Standby switch lets you run barefoot, but you can instantly switch to full power if you need it.

Transmit LED; 12 VDC, 200 mA accessory jack; 12 VDC keying relay for solid state/tube rigs; tough, nearly indestructible Lexan-over-aluminum front panel.

Shipped with transformer installed and wired for 120 VAC. Draws 16 amps at 120 VAC. Compact 8 1/2"Hx15 1/2"Dx14 1/2"W inches.

Ameritron Warranty

In the unlikely event that there are defects in materials or workmanship, Ameritron will fix your AL-572 free for a full year. The 572B tubes are covered by manufacturer's warranty.

Made in the U.S.A.

Ameritron ... we build quality in the U.S.A.

Call your dealer for your best price

Enjoy 1300 Watts of near legal limit power and the best value for your money.

Order your AL-572 today!

<http://www.ameritron.com>

AL-80B . . . 1 kW PEP output!

Ameritron doubles average SSB power!

AL-80B kilowatt output desktop linear can double your average SSB power out with high-level RF processing -- runs cooler because its *classic 3-500ZG* tube completely turns off between words!



AL-80B
\$1399

Suggested Retail

and peak performance at all power levels.

Ball bearing vernier reduction drives with logging scales on both the plate and load controls make tuning precise and easy. Rapidly retune to your favorite frequency.

Step-Start Inrush Protection™

Step-Start Inrush Protection™ stops damaging inrush current with a start up sequence that's easy on your tube and power supply components.

Multi-Voltage Power Transformer

Excessive line voltage stresses components and causes wear out. Low line voltage causes a "soft tube" effect -- low output/signal distortion.

Our exclusive **Multi-Voltage Power Transformer™** lets you optimize for different line voltage. Select from 14 different primary voltages from 90-140 VAC & 205-250 VAC.

The high voltage secondary can be wired to reduce plate voltage for efficient operation below 400 Watts for use outside the USA.

Dual Illuminated

Cross-Needle Meters

Ameritron's dual illuminated cross-needle meters give you *four separate meters* to monitor your operating conditions -- you can tell right away if something is wrong.

Grid and plate current and forward PEP output power are *continuously* monitored to show improper loading/abnormal conditions.

The fourth meter can be switched to monitor your 3-500 *classic* tube DC plate voltage, reflected PEP power and the SWR of your antenna, ALC voltage to your rig and the grid current that starts ALB action -- get a clear picture of your AL-80B.

QSK Compatible

The fast open frame T/R (transmit/receive) relay in the AL-80B switches nearly as fast as some vacuum relay QSK T/R switches.

For lightning fast QSK operation use the optional external electronic PIN diode QSK-5 T/R switch or the internal QSK-5PC.

Plus much, much more!

Operate/Standby switch lets you run barefoot, but can instantly switch to full power if you need it.

Has transmit LED; 12 VDC, 200 mA accessory jack; 12 VDC keying relay for solid state and tube rigs; tough, nearly indestructible Lexan over-aluminum front panel. Two year limited warranty.

Made in the USA. Ameritron is the proven leader in high power amplifiers. **Call your dealer for your best price!**

Ameritron's AL-80B kilowatt output desktop linear can double your average SSB power output with high-level RF processing using Ameritron's exclusive *Dynamic ALC™*.

You get cooler operation because the AL-80B's exclusive *Instantaneous RF Bias™* completely turns off the *classic 3-500* tube between words. It saves hundreds of watts wasted as heat.

You get a full kilowatt PEP output from a whisper quiet desktop linear. It's a compact 8 1/2 Hx14 Dx15 1/2 inches and plugs into your nearest 120 VAC outlet. Covers all bands 160-15 Meters, including WARC and MARS (10/12 Meters mod with license).

You get 850 Watts output on CW, 500 Watts output on RTTY, an extra heavy duty power supply, a *classic 3-500* tube, nearly 70% efficiency, tuned input, Pi/Pi-L output, inrush current protection, multi-voltage transformer, dual Cross-Needle meters, QSK compatibility, two-year warranty, made in USA, plus much more!

Dynamic ALC™ doubles average SSB power

The AL-80B's exclusive *Dynamic ALC™* gives you high-level low-distortion RF processing. When activated, it can more than double your average SSB power and produce up to 6 dB improvement in intelligibility. Maximizes your talk power without distortion/splatter.

A convenient front panel control lets you adjust output power level.

Instantaneous RF Bias™ eliminates heat

The AL-80B's exclusive *Instantaneous RF Bias™* completely turns off the 3-500

classic tube (except filaments) between words and dots and dashes. It eliminates hundreds of watts wasted as heat to give cooler operation, longer component life.

Gutsy Heavy Duty Power Supply

The guts of the AL-80B is its *heavy duty* power supply. A 26 pound transformer using a high silicone steel core, computer grade capacitors, heavy duty bleeders and ten 3 amp, 1000 Volt power rectifiers give you a stiff 2700 volts fully loaded. Many amplifiers using two 3-500s use such small power supplies they don't deliver much more power output than the AL-80B.

70% Efficiency

The AL-80B is built on a rugged steel chassis. It has a separate RF compartment that's fully shielded to keep RF from leaking out. This keeps RFI and TVI to a minimum.

Superb RF design and layout, Hi-Q tank circuit and commercially rated RF power components give you nearly 70% plate efficiency over the entire operating range. Your power goes into your antenna instead of heating up your amplifier.

A whisper quiet internal fan draws in cool air over power supply components and pressurizes the 3-500 *classic* tube compartment to remove heat for longest life.

Tuned input lets your rig deliver full output

50 Ohm broadband Pi-Network *tuned input* is used. Even fussy solid state transmitters will deliver full power!

Pi/Pi-L Output Network

A carefully designed Pi/Pi-L output network using the optimum Q for each band gives exceptionally smooth tuning, extremely wide matching range, full band coverage

HF Linear Amplifiers with Eimac™ 3CX800A7

Choose the single 3CX800A7 Amp for 1250 Watts PEP or . . .

. . . select the dual 3CX800A7 Amp for 1500 Watts PEP PLUS!



AL-800
\$1825

One tube
Suggested
Retail

AL-800H

\$2695
Two tubes

ALC control: Front panel adjustable, true ALC control.

Hefty power supply: 32 lb. grain orientated, silicone steel core transformer.

Step-Start Inrush Protection: Stops damaging inrush current.

Multi-voltage operation: 14 user-selectable AC line voltage from 90-140; 200-250 VAC.

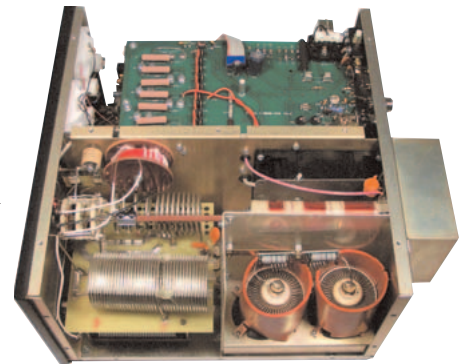
Dual illuminated cross-needle meters: Read peak forward, reflected, SWR high-voltage, grid/plate current.

Compact 8½Hx16½Dx14¼W inches.
52 pounds operating weight. (AL-800H).

Power required: 240 VAC, 14 amps (AL-800H).

If you're looking for high power in a desktop size amplifier, this is the amp for you. Contact Ameritron for a free AL-800H or AL-800 instruction manual.

An inside look at
AMERITRON's AL-800H



Ameritron's AL-800H gives you the power of the big guns, but the desktop size of the economy amplifiers!

This amplifier is for those who don't have the space that a big amp like the AL-1500 requires, but is big on power!

You get big output power, 1500 Watts plus from the AL-800H and 1250 Watts from the AL-800, more than enough to compete with the big guns.

You'll be able to break through pileups to log more DX and get great scores in contests!

But the amplifier still can fit into a small space on the desktop or at the operating station because its compact physical size.

The price is a little less than the big boy amplifiers as well . . .

Output power: 1250 watts PEP, single 3CX800A7. 1500 W plus, two 3CX800A7s. 160-15 Meters including WARC bands. Modifiable for 12/10 Meters, FCC license required.

Genuine Eimac™ tube(s): AL-800 has a single Eimac 3CX800A7; AL-800H has two Eimac 3CX800A7s, adjustable slug-tuned input circuit.

Output network: Pi/Pi-L gives you smooth tuning and wide matching range.

Vernier reduction drives make tuning and loading adjustments smooth and easy.

Tube protection: Grid current limiting circuit protects your tubes.

Quiet pressurized ventilation keeps tubes safely cooled.

An inside look at AMERITRON'S AL-80B

Dual illuminated cross-needle meters give you four separate indicators that monitor your operating conditions -- PEP forward power, PEP reflected power, SWR, Grid Current, Plate Current, Plate Voltage and ALC.

Heavy Duty Bandswitch.

Tank coils spaced away from chassis for optimum "Q".

Pi-Network gives smooth tuning and full band coverage, even on 160 and 80 Meters.

Heavy duty power supply: 26 lb. high silicone steel transformer and computer grade capacitors.

Rear panel adjustable input Pi-Network.

Genuine classic 3-500 Tube.

AMERITRON'S AL-80B Kilowatt Desktop Linear

SPECIFICATIONS:

Frequency Coverage: 1.8, 3.5, 7, 14, 21 MHz and WARC bands.

Export/User modified models include 10/12 Meters.

Input Circuit: Adjustable Pi-Network, VSWR 1.3:1 or less at resonance.

Output Circuit: Pi-L/Pi-Network.

Input Bandwidth: 20% for 2:1 VSWR or better.

Drive Requirement: 85 Watts for 800 Watt CW output. 10 dB gain.

Shipping Weight: Amplifier, 54 lbs.; tube, 3 lb.

Operating Weight: 48 pounds.

Efficiency: CW/SSB better than 66%.

Dimensions: 15½Dx14Wx8½H inches.

AMERITRON *super legal limit* amplifiers

These three rugged linears all use a super heavy duty Hypersil[®] power supply capable of 2500 Watts!

Ameritron's AL-1500 Amplifier with Eimac[®] 3CX1500A7



AL-1500
\$3045
Suggested
Retail

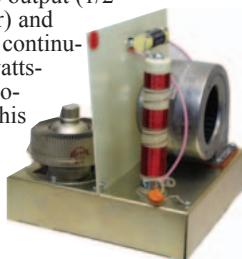
Feel the need for maximum legal HF output power? AMERITRON's AL-1500 will give it to you.

Using the *Herculean* 3CX1500A/ 8877 ceramic tube with its high power gain, the AL-1500 needs only 65 watts of drive from your exciter to deliver the goods-- transceivers and other exciters just loaf at 1500 watts out.

Cool, efficient operation is provided by a forced-air system with tube chimney, using a commercial grade die-cast ball bearing blower for maximum tube life. The tube is further protected by time delay starting and automatic over-current shutoff to remove drive power if the amplifier is mis-tuned.

You get full legal power output from a whisper quiet desktop linear. Measures 18 1/2 D x 17 W x 10 H inches, and covers all bands, 160-15 Meters, including WARC and MARS (80% of full output set to nearest amateur band). 10/12 Meters modifiable.

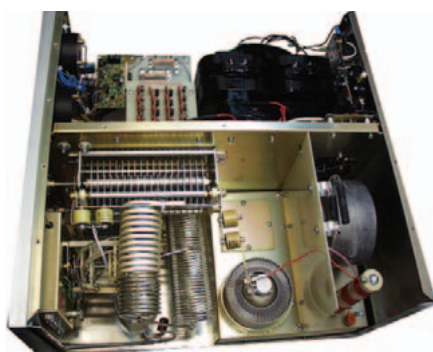
You get 1500 watts output (1/2 hour continuous carrier) and 2500 watts (30 second continuous carrier and 2500 watts-- plus 30 minute PEP two-tone test). You get all this power, plus, 65% efficiency, pi-network tuned input, Pi/Pi-L output, inrush current protection, multi-volt-



age transformer, QSK compatability, and a one-year warranty.

The guts of the AL-1500 is its heavy duty power supply, with a 32 lb. *Peter Dahl Hypersil[®]* trans-former using a high silicone steel core, computer grade capacitors (33 mfd total), heavy duty bleeders and twenty 3 amp, 1000 volt power rectifiers give you a stiff 3300 volts fully loaded.

The AL-1500 is built on a rugged steel chassis with a separate RF compartment fully shielded to keep RF from leaking out, keeping RFI and TVI to a minimum. Superb RF design and layout, Hi-Q tank



An inside look at the AMERITRON AL-1500

circuit and commercially rated RF power components give you 65% plate efficiency over the entire operating range. Power goes into the antenna instead of into heat.

50-ohm broadband Pi-Network tuned input with slug-tuned coils is used. Even fussy solid state transmitters deliver full power!

A carefully designed Pi/Pi-L output network using the optimum Q for each band with vernier ball drives gives smooth tuning, wide matching range, full band coverage, and peak performance at all power levels.

The AL-1500's grid overload circuit protects the tube from excessive grid current; if 175 mA of peak grid current is reached, the

"OPR" LED will no longer light and the amplifier will go into a bypass condition until reset by the operator.

Transformer provides many options

Since excessive line voltage stresses components (low line voltage causes a "soft tube" effect, for example), Ameritron's exclusive Multi-Voltage Power Transformer™ lets you optimize for different line voltages. Select from 4 different primary voltage ranges, from 205-219 VAC to 252 to 265 VAC. The amplifier comes wired from the factory for 240 VAC.

The AL-1500 has two *illuminated* panel meters. Grid Current meter provides continuous reading of the critical grid current and indicates proper, safe amplifier operation.

The other meter can be selected to read Plate Voltage, Plate Current, Peak RF Watts, or ALC. A SSB/CW selector switch chooses bias voltage for best linearity on SSB or lowest dissipation on CW.

The Operate/Standby switch, in *Standby*, maintains the tube's filament and plate voltages while allowing "barefoot" operation.

Includes 12 volt DC auxiliary jack and an "XMT" LED to provide indication of proper amplifier keying by the exciter. **Power required:** 240 VAC, 15 amps.

Frequency coverage: 1.8, 3.5, 7, 14, 21 MHz & Warc bands. User-modifiable for 28 MHz (FCC license required).

Size: 18 1/2 D x 17 W x 10 H". 77 pounds. UPS shippable, 3 boxes.

Add-on Electronic Bias System . . . \$39⁹⁵

for AL-80A/82/1200/1500 Amps
EBS-1, \$39.95. EBS reduces heat by reducing quiescent current to low values during periods when exciter output falls below 100 mW. Features remote detector board. **EBS-1H, \$49.95**, for other amplifiers. Call 662-323-8211 for details.



Peter Dahl Hypersil[®] transformer weighs 32 lbs.

Ameritron's 3CX1200A7 Amplifier



AL-1200
\$2645
Suggested Retail

Ham Radio's toughest tube -- the Eimac[®] 3CX1200A7 is in ham radio's toughest amplifier! It has a 50-Watt control grid dissipation. It also has the same super heavy duty power supply that's in our AL-1500 amplifier that

loafs at full power. A 3CX1200A7 has the lowest quantity history of field replacement of any modern transmitting tube that we use. It has the ruggedness and power handling of ceramic tubes combined with the long-life of thoriated tungsten filaments.

This classic linear gives you full legal output using a pair of 3-500Z graphite tubes.



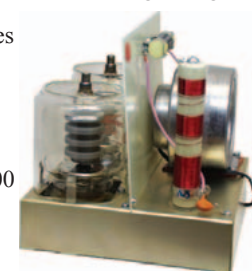
Ameritron's Dual 3-500Z Amplifier



AL-82
\$2645
Suggested Retail

can't use these tubes to their full potential. Our AL-82 amplifier uses the same *Peter Dahl Hypersil[®]* power transformer and used in the AL-1500 and AL-1200 amplifiers -- *powerful stuff, just loafs at full power!*

Examine the features and component ratings of the AL-82 and compare it to any competing amplifier using two 3-500Zs. Most competing amplifiers using 3-500Zs can't give you 1500 Watts because their lightweight power supplies



AMERITRON *no tune* Solid State FET Amplifier

No tuning, no fuss, no worries -- just turn on and operate . . . Incredibly low \$1299 includes AC power supply, 600 Watts output, continuous 1.5-22 MHz coverage, instant bandswitching, no warm-up, no tubes to baby, fully SWR protected, extremely quiet, very compact . . .

AMERITRON's revolutionary ALS-600 is amateur radio's *only* linear amplifier that uses four rugged TMOS RF power FETs -- gives unequalled no tune solid state performance.

\$1299 includes Ameritron's no tune FET Amplifier and a 120/220 VAC, 50/60 Hz AC power supply for home operation.

You get instant bandswitching, no tuning, no warm-up, no fuss! ALS-600 gives 600 Watts PEP Output power and 500 Watts CW with continuous coverage 1.5 to 22 MHz; 10/12 Meters with easy-to-install optional kit, \$29.95 plus shipping. Must present FCC license at time of sale.

SWR Protection prevents amplifier damage if you switch to the wrong band, use the wrong antenna or have a high SWR. Over-power protection enables if output forward power or reflected power exceeds a safe level. Output power is automatically reduced to prevent amplifier damage by controlling ALC to exciter.

The ALS-600 is extremely quiet. A low speed, low volume fan is so quiet you'll hardly know it's there, unlike noisy blowers used in other amplifiers. The ALS-600 is a compact 6x9½x12 inches -- takes up less space than your rig! Weighs just 12½ lbs.

An illuminated Cross-Needle SWR/Wattmeter lets you read SWR, forward and reflected *peak* power simultaneously. An Operate/Standby switch lets you run "barefoot", but you can instantly switch to full power if you need it.

You get a front-panel ALC control! This *exclusive* AMERITRON feature lets you adjust your output power on the convenient front panel display. You also get front panel Transmit, ALC, and SWR LED indicators. A 12 VDC output jack lets you power low current accessories. Enjoy 600 Watts of no tune Solid State power. Call your favorite dealer for your best price.

ALS-600PS Heavy Duty Power Supply



- Massive choke input filter greatly improves voltage regulation and reduces peak AC line current
- AMERITRON's *exclusive Multi-Voltage Power Transformer* lets you compensate for stressful high line voltage and performance robbing low line voltage
- **Step-Start Inrush Protection™** stops damaging inrush currents and extends the life of your power supply components
- Illuminated Cross-Needle Meter monitors voltage and current of 50 VDC line

- Extremely quiet fan • Very compact 6x9½x12

inches -- can be placed conveniently out of the way • Wired for 120 VAC, supplies 50 VDC at 25 Amps to ALS-600 amplifier • Also use on 100-130 VAC and 220-250 VAC, 50/60 Hz • Draws less than 12 Amps at 100 VAC and less than 6 Amps at 230 VAC • Includes prewired cable to plug into ALS-600 amplifier

• **Made in U.S.A.**

Switching Power Supply

Works with all ALS-600 amplifiers.

Extremely lightweight, just 10 lbs. **Superb** regulation, very low radiated noise.

Measures a compact 9Wx6Hx14½D inches.

ALS-600SPS
\$629
Suggested
Retail



ALS-600
\$1299

Suggested Retail

(Includes AC Power Supply, ALS-600PS)

ALS-600 Amp with Switching Power Supply

New! ALS-600S, \$1428. ALS-600 amplifier with 10 lb. ALS-600SPS switching power supply combo.

Just don't take it from us . . . here's what "they" say about our solid state base station amplifier:

From QST Magazine, March, 2005

"... the amplifier faulted only when it was supposed to. It protected itself from our boneheaded, sleep-deprived band changing maneuvers . . ."

"I found myself not worrying about damaging this amplifier. It seems quite capable of looking out for itself. . . . Kudos to Ameritron."

"I couldn't hear any noise at all from the SPS (*switching power supply*) on the vertical or quad..."

"I came to greatly appreciate the size, weight, reliability and simplicity of this amplifier."

"The ALS-600S makes it possible to pack a transceiver and a 600 Watt amplifier, that together weigh less than 30 pounds."

From website review, 2005

"I've owned my Ameritron ALS-600 for about 6 months. I previously used it with a manual tuner but recently opted for an MFJ-994.

The ALS-600 is very easy to operate. In fact, it's almost idiot proof. It's no tune, no warm-up, and let's you change bands with the turn of a switch. The unit runs cool, has virtually no fan noise, and gets great audio and signal reports. As a caveat, you must have a 1.8 or less SWR for the unit to transmit. This means a well tuned antenna or a good tuner to bring down the SWR. If the SWR goes beyond 1.8:1, the fault circuit will kick-in. It's easily resettable with the touch of a button. If you are used to tube amps, you'll spend a few hours on the learning curve using solid state amps and keeping reasonable SWRs. In other words, two coat hangers with ends twisted together out the window for 160 meters probably won't work.

The amp & power supply work well on 110-115 volts and there's really no need to set it for 220. If you want ease of operation, use efficient and well tuned antennas, and don't mind paying about \$2 per watt for solid state versus about \$1.25 per watt for a tube amp, you'll love the Ameritron ALS-600."

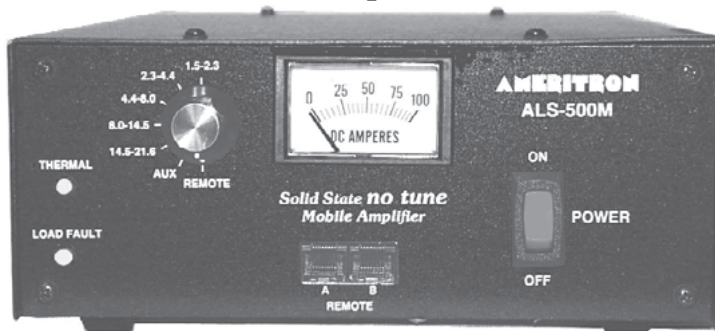
ARF-1000 RF Filter . . . \$159

Use with transceiver or amplifier that produces unwanted harmonics. Frequency select switches to 1 of six different ranges, 1.5-30 MHz. When the filter is selected it reduces harmonics above cut-off frequency. Handles 1 kW SSB input power, 600W CW or 400W RTTY. SWR less than 1.3:1 on all ham bands. SO-239 in/output. Compact 5½Wx3½Hx9½D inches.



AMERITRON mobile *no tune* Solid State Amp

500 Watts, Instant bandswitching, no tuning, no warm-up, SWR protected, 1.5-22 MHz... **NEW! ARI-500 Amplifier Radio Interface** reads transceiver band data -- automatically band-switches ALS-500M amp... **NEW! ALS-500RC Remote Head** gives total remote control!



ALS-500M
\$849
Suggested Retail

Just turn on and operate -- no warm-up, no tuning, instant bandswitching. Compact. Ameritron's ALS-500M solid state mobile amp gives you 500 Watts PEP SSB or 400 Watts CW output! Covers 1.5-22 MHz, (10/12 Meters with MOD-10M, \$29.95 kit, requires FCC

license). Mail with order to Ameritron.

Virtually indestructible! Load Fault Protection eliminates amplifier damage due to operator error, antenna hitting tree branches, 18-wheeler passing by. Thermal Overload Protection disables/bypasses amp if temperature is excessively high. Auto resets.

Typically 60-70 watts in gives full output. ON/OFF switch bypasses amplifier for "barefoot" operation. Extremely quiet fan comes on as needed. Excellent harmonic suppression, push-pull output, DC current meter. 13.8 VDC/80 Amps. Super-compact 3 1/2 x 9 x 15 inches. 7 pounds.

ALS-500M, \$849, 500 Watt mobile amp.

ALS-500MR, \$879, ALS-500M mobile amp *plus* ALS-500RC Remote Head for full manual remote control.

ARF-500K, \$179.95, Remote kit for older ALS- 500M mobile amps with serial # below 13049. Includes filter/relay board for ALS-500M, AL-500RC Remote Head, cables, hardware, instructions.

ARF-500K2, \$289.95. Includes ARF-500K Remote kit for older ALS-500Ms *plus* ARI-500 Amplifier Radio Interface below.

New ARI-500, \$119.95, Amplifier Radio Interface reads band

data from your transceiver so you can *automatically* bandswitch your ALS-500M amplifier. See below inset.

Choose ARI-500 for fully automatic bandswitching or ALS-500RC for manual remote control.

ALS-500RC

\$49

Suggested Retail

New ALS-500RC, \$49, Remote Head lets you mount ALS-500M amplifier *anywhere* and gives you full manual remote control. Select desired band, turn On/Off and

monitor current draw on its DC Current Meter. Power, transmit and overload LEDs. RJ-45 cables plug into Amplifier/ Remote Head. Works with serial numbers above 13049 (below 13049 requires the ARF-500K, see left).



Let your rig auto bandswitch your ALS-500M Amplifier

New!

ARI-500
\$119.95

Suggested Retail

The Ameritron ARI-500 Amplifier Radio Interface

reads band data from your Icom, Yaesu, Kenwood or Alinco transceiver so they can remotely and automatically bandswitch your ALS-500M amp.

Lets you mount your ALS-500M out-of-the-way in your trunk.

Works with serial numbers above 13049 (below 13049 requires the ARF-500K, see above).

You can add the ALS-500RC for manual bandswitching and data monitoring, etc, see left description.



Ameritron precision peak-reading SWR Wattmeters

Flat Mount Mobile SWR/Wattmeter



AWM-35
\$159.95
Suggested Retail

Ameritron's flat Mobile Peak Reading SWR/Wattmeter is just 1 5/8" thick -- easily mounts on your dash-board for easy viewing.

Flat mount on wall or shelf

Remote sensor



in your ham shack for best viewing angle.

Remote sensor with 25 feet thin, flexible cable lets you place sensor and coax out-of-the-way.

Handles full 1500 Watts, 1.8-30 MHz. Lighted Cross-Needle meter.

Active electronics lets you read true peak or average power in 3000/300 Watt ranges. Has "High SWR" LED. Flat-Mount wattmeter measures 5W x 3 1/4" H x 1 5/8" D"; remote

sensor is compact 3 1/2" W x 2 3/4" H x 2 1/4" D". Use 9V battery or 12 VDC.

Base Station 1500 Watt SWR/Wattmeter

AWM-30
\$149
Suggested Retail

Ameritron painstakingly designed the AWM-30 to make accurate and precise power measurements.

Designed-in-accuracy is the result of a carefully designed directional coupler, an accurate active peak reading circuit and a precision d'Arsonval meter movement.

Ameritron's

AWM-30 reads *true-peak* or average power on a large illuminated three inch Cross-Needle meter. Handles 1500 Watts, 1.8 to 30 MHz. Has 3000/300 Watt ranges. Reads forward and reflected power and SWR on highly visible dual cross-needle meter movement.

Remote sensor with cable lets you conveniently place sensor. Battery saver turns unit off with no RF applied. Uses 12 VDC or 9 volt battery (not included). Beautiful wrap-around custom metal cabinet looks great in your shack. Measures a compact 4 1/2" W x 4 1/2" H x 5 1/2" D inches.



AMERITRON HF Mobile "Screwdriver" Antenna

1.2 kW... 3.5-30 MHz continuous ...1.5:1 VSWR...more!



SDA-100
\$369
Suggested
Retail

AMERITRON's SDA-100 may be the best built, best looking, best performing HF mobile screwdriver antenna in the world! When properly installed on your vehicle this antenna provides coverage from 80 through 10 Meters with a 6 foot whip. Remove the whip for 40 through 6 Meters.

What makes our antennas stand above all the rest is that our CNC machined components are from aircraft aluminum or stainless steel and blueprinted, meaning you can take antennas apart and mix them up, then reassemble and they all work the same.

Our fiberglass coil form is approximately 2 inches in diameter. Other antenna builders know fiberglass is better but they choose not to use it because of the expense and difficulty in machining. We use 14 gauge wire for high power capability,

wound at eight turns an inch for maximum efficiency. We machine groove our coils so they will not loosen up or jam -- they won't wear out, for years of trouble free service!

New Lexan cover is super durable and protects your Ameritron screwdriver for years of trouble-free service.

The decoupler we use is CNC machined for tight tolerances with custom finger-stock designed to contact 3 turns of coil all the time with over 25 pounds of combined contact pressure. With this design you can run up to 1.2 kilowatts PEP, trouble free. It's so superior to anything else on the market that we put our outstanding AMERITRON warranty behind it.

We use a new heavy duty Pittman commercial 12 volt gear motor, which is very durable and quiet while receive tuning. This motor is super heavy duty for years of trouble-free service. Antennas come with the sensors already installed so if you decide to add an auto controller now or later, everything is ready.

The AMERITRON SDA-100 includes:

Up/Down switch; 5 feet of motor DC cable with detachable weather sealed connector; decoupling toroid matching coils.

The SDA-100 comes in a handsome black finish, using the Dupont Basecoat/Clearcoat system.

Optional accessories:

SDM-100, \$75.

Stainless steel flange mount base bracket, with multiple pre-punched holes. The SDA-100 mounting rod is a 1-in. pipe thread 14-in. long. Ship Code B.

SWP-100, \$19.95.

6-ft stainless steel whip.

Combination Price Saves \$!

SDA-110, \$454. Combination of SDA-100 Screwdriver antenna, SDC-100 digital controller, and SWP-100 six foot stainless whip. **SAVES \$!!!**

Programmable 10-Memory Screwdriver Controller

NEW! SDC-102 lets you save 10 screwdriver antenna positions in memory. With a push of a button, you can quickly return to any saved position.

Up/Down buttons let you manually move the antenna to any desired position. A 4-digit turns counter with bright *see-in-the-sun*

LEDs gives you precise antenna position.

The antenna always moves to its desired position from the bottom, insuring that the motor is always loaded the same.

Ameritron's AutoPark™ feature automatically bottoms your antenna for parking in your garage and *resets and calibrates* your counter each time to eliminate antenna slip-page and turns count errors.

Ameritron's Dead-OnSTOP™ feature eliminates overshoot for dead-on stops.

Ameritron's StallProtector™ feature shuts off stalled motors to prevent motor burnout.

Motor current can be monitored for signs of trouble and to determine stall current.

Motor direction can be reversed so the UP button is always up. Compatible with single/dual magnetic sensors. 3 1/2"Wx3 1/4"Hx1 1/4"D in.

SRS-100, \$29.95. Magnetic sensor kit for High Sierra antennas to use SDC-102.

SRS-1001, \$9.95. Magnetic sensor kit for Hi-Q Antennas to use SDC-102.



SDC-102
\$119⁹⁵
Ship Code A

SDC-100 Digital Screwdriver Controller

Ship Code A 4-digit super bright

LEDs tell you exactly where your antenna is positioned! Re-tune *exactly* -- fast, no guessing. Digital count range -999 to +999. On/off/reset switch for easy calibration. 4Wx1 1/2"H x2D". Use 13.8VDC.

SRS-100, \$29.95. Magnetic sensor kit for High Sierra antennas. **SRS-1001, \$9.95.** Magnetic sensor kit for Hi-Q Antennas.



Ameritron Precision, compact SWR/wattmeters



AMERITRON precision, compact SWR/Power Meters are the Cadillacs of ham radio! If you will not settle for less than the best accuracy and precision these *four new models* are for you.

You get a large 2 1/2"x1 1/4" inch precision illuminated meter for easy wide-angle viewing. A highly visible black and red meter scale on a bright white background

makes it quick and easy to read SWR, forward or reflected power. Lamp requires 13.8 VDC or 110 VAC operation.

A functional and simple front panel layout lets you select power ranges, bands or make SWR readings intuitively.

The AMERITRONs feature an SWR scale that extends the full view of the meter. 3:1 SWR is centered at mid-scale to

give you precision, wide-range measurements.

All AMERITRON precision, compact meters feature peak and average, forward and reflected power readings and have selectable power ranges.

Each AMERITRON is housed in an all metal cabinet with rubber feet and protected by durable speckled black paint. A designer injection molded grey front panel perfectly matches any transceiver. 6Wx2 1/2"Hx4D inches.

Air dielectric SO-239 connectors with gold plated center pins gives superb performance to beyond 525 MHz.

These meters are precisely factory calibrated for accurate measurements.

Choose from four Ameritron models . . .

AWM-20, \$144.95. HF, covers 1.6 to 60 MHz. 30, 300, 3000 Watt power ranges.

AWM-22, \$104.95. HF/VHF, covers 1.8 to 200 MHz. 5, 20, 200W power ranges.

AWM-23, \$124.95. VHF/UHF, covers 125-525 MHz. 5, 20, 200W power ranges.

AWM-24, \$179.95. HF/VHF/UHF, covers 1.8-525 MHz. 5, 20, 200W power ranges.

AMERITRON *True Legal Limit*™ Tuner

Easily handles 1500 Watts continuous carrier even on 160 Meters . . . High-current edge-wound silver plated Roller Inductor . . . Two 500 pf high capacitance tuning capacitors with 6:1 vernier reduction drives . . . 3 core choke balun . . . Six position antenna switch . . . True peak reading Cross-Needle SWR/Wattmeter . . .



ATR-30

\$599
Suggested Retail

- *Handles well over 1.5 kW carrier*
- *Super High Current edge-wound silver plated Roller Inductor*
- *500 pf tuning capacitors with 6:1 xvernier reduction drives*
- *3 core choke balun*
- *6 position antenna switch*
- *True peak reading meter*

AMERITRON's ATR-30 *True Legal Limit*™

roller inductor antenna tuner is ham radio's toughest! It'll handle 1500 Watts continuous carrier output on all modes and all HF bands into most antennas -- even on 160 Meters where most antenna tuners fail.

It's perfect for Ameritron's most powerful amplifiers where the ATR-30 just loafs.

All band coverage lets you operate 1.8-30 MHz including all MARS and WARC bands.

Super High Current Roller Inductor

You'll see Ameritron's new *super high current* air core roller inductor. It's *edge wound* from a thick solid copper strip and silver plated. This produces a large surface area and a massive conductor. It can carry huge circulating RF currents and withstand tremendous heat that'll melt or burn ordinary roller inductors.

A gear driven turns counter and crank knob gives you precise inductance control.

Two 500 pf Tuning Capacitors

Two 500 pf -- *the highest of any antenna tuner* -- variable transmitting capacitors give you no-arc wide range impedance matching for true high power performance.

6:1 vernier reduction drives makes capacitor tuning smooth and easy.

Super Balun, 6 position Antenna Switch

Super heavy duty three core choke balun lets you match virtually any balanced feed-line antenna without core saturation.

A 6 position antenna switch lets you select your desired operating antenna.

Read true Peak Power

Ameritron's active electronic *true peak* reading meter accurately reads forward and reflected power and SWR *simultaneously* on a lighted Cross-Needle meter.

Roomy Cabinet maintains High-Q

Roomy extra-strong .080 inch thick aluminum cabinet gives highest efficiency and lowest loss. 13 1/2" W x 5 3/8" H x 17 1/2" D inches. Has Ameritron's superb one year limited warranty with legendary customer service.

1.2 kW Antenna Tuner Fan Cooled Dummy Load Legal Limit Dummy Load

ATR-20

\$459

Suggested Retail

Handles a

full 1.2 kW SSB and 600 Watts CW. Great for Ameritron's AL-811, AL-811H, AL-80B, ALS-500M, ALS-600 and other 1.2 kW SSB amplifiers. Its roller inductor (gear driven with turns counter and crank knob) "T" matching network *continuously* tunes all frequencies from 1.8 through 30 MHz. Both tuning capacitors have vernier reduction gear drives for smooth precise tuning.

Accurate built-in 3 kW *true peak* or average detecting directional power meter. Peak and average forward power, reflected power, and SWR are displayed on a lighted cross-needle meter. Scratch-proof Lexan front panel.

Rear panel connectors for coaxial wire and balanced feedlines. A heavy duty, high voltage insulated, current-type balun allows use with balanced feedlines.

Matching range extends from 1 to 2500 Ohms (5 to 500 Ohms on 160 Meters) at reduced power. Six position antenna selector switch.

Measures 13Wx4 3/4Hx17D inches.



ADL-2500
\$199⁹⁵
Suggested Retail

Works with all amplifiers, transceivers and transmitters from DC through 6 Meters. It can dissipate 2500 Watts average power for one minute on, ten minutes off. Handles 300 Watts continuous. SWR is less than 1.25 to 1 below 30 MHz and less than 1.4 from 30 to 60 MHz.

Four 50 Ohm non-inductive super high energy density resistors are used. Each has an incredibly high energy density of 7000 joules per cubic inch per second with a voltage gradient of 10 kV per inch!

Detailed specifications and power curve are permanently silk-screened on the bronzed cabinet for easy reference. Uses 12 VDC or 110 VAC. **Measures** 9 1/2Dx8 1/4Wx4H in. Has SO-239 connectors. 5 pounds.

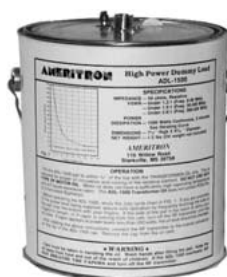
AMERITRON's 2500 Watt *fan cooled* dummy load handles any legal limit amplifier, and lets you tune-up your expensive amplifier fast and super easy.

Works with all amplifiers, transceivers and transmitters from DC through 6 Meters.

It can dissipate 2500 Watts average power for one minute on, ten minutes off. Handles 300 Watts continuous. SWR is less than 1.25 to 1 below 30 MHz and less than 1.4 from 30 to 60 MHz.

Four 50 Ohm non-inductive super high energy density resistors are used. Each has an incredibly high energy density of 7000 joules per cubic inch per second with a voltage gradient of 10 kV per inch!

Detailed specifications and power curve are permanently silk-screened on the bronzed cabinet for easy reference. Uses 12 VDC or 110 VAC. **Measures** 9 1/2Dx8 1/4Wx4H in. Has SO-239 connectors. 5 pounds.



ADL-1500X
\$39⁹⁵
Without Oil.

Suggested Retail

ADL-1500
\$59⁹⁵
Oil included.

Detailed specifications and power curve.

Order ADL-1500 with industrial grade transformer oil. Order ADL-1500X without oil.

ADL-21, \$20.00. 1 Gallon Industrial Grade Transformer oil.

AMERITRON's Legal Limit oil filled dummy load lets you run the maximum legal limit of 1500 Watts for a full five minutes.

ADL-1500 has high quality industrial grade transformer oil (no PCB) and heavy duty 50 Ohm resistor.

AMERITRON's Legal Limit oil filled dummy load gives you SWR under 1.2 to 30 mHz and low SWR to 400 MHz.

Durable, sturdy gallon can measures 7 1/2Hx6 3/8D inches.

Detailed specifications and power curve.

Order ADL-1500 with industrial grade transformer oil. Order ADL-1500X without oil.

ADL-21, \$20.00. 1 Gallon Industrial Grade Transformer oil.

AMERITRON Amplifier-to-Transceiver Interface

Protects expensive radio from damage by keying line transients and steady state current and voltages



ARB-704
INTERFACE BUFFER

\$49⁹⁵

ARB-70412
for IC-706 series radios

The ARB-704 will work with almost any transceiver without the need of the plug-and-play pre-wired cable.

The ARB-704 advanced interface is compatible with all common radios and amplifiers even though radios and amplifiers do not have standardized voltages, accessory plugs, or wiring. It's designed to work with any amplifier/radio combination.

The input is designed to be compatible with any transmitter or transceiver, and the output is compatible with AC control lines or DC positive or negative amplifier control lines having up to 200 Volts peak open circuit voltage and 300 mA of operating current.

Why you need the ARB-704

AMERITRON QSK-5 High Power Transmit/Receive Switch



QSK-5
\$349⁹⁵
Suggested Retail

This self-contained

AMERITRON QSK-5 Transmit/Receive Switch uses electronic PIN diode switching to give you lightning fast QSK operation from nearly any HF linear amplifier.

It lets you use your linear amplifier for high power QSK CW, for packet, AMTOR and any mode requiring extremely fast switching between transmit and receive.

Installation is simple. All you do is plug in a few cables to start enjoying QSK -- there's no complicated internal wiring.

The world's most advanced QSK switch has new technology that'll make

your amplifier last longer and prevent TVI, RFI and key clicks.

AMERITRON's exclusive AmpSaver™ (available in QSK-5PC) completely turns off your power amplifier tube current between dots, dashes and words! This new QSK technology gets rid of unwanted power dissipation that causes damaging heat. Your expensive amplifier runs cooler so every component in your amplifier lasts longer.

Our exclusive SureSwitch™ handshaking prevents "hot switching" RF power. Prevents TVI, RFI, key clicks and possible damage to your amp.

The QSK-5 is six times faster than a typical mechanical vacuum relay "QSK" switch that can just barely keep up with QSK transceivers. As transceivers get faster and better, mechanical switching just

not affect attack or release times in a deleterious manner.

The ARB-704 operates with transmitters or transceivers that pull amplifier control lines to ground, or output a wide range of positive or negative control voltages. The transmitter only switches currents under 0.35 milliamperes and very low voltages when using the ARB-704. Measures a super compact 4 1/4" W x 1 3/4" H x 2 3/4" D inches.

PLUG-AND-PLAY CABLES

Cables are \$15.95 each.

Model#	Transceivers
PNP-8D	FT-1000, (MP), 900, 767GX, 920, 990, 747GX
PNP-8M	FT-890, 840, 817, 857, 897
PNP-35	FT-100, (D)
PNP-5M	FT-847
PNP-7D	TS-440, 690, 450, 180, 140, 950, 130, 870, 2000, 50, 120, 530, 430, 830, 949, 570
PNP-13D	All models of the IC-706 series
PNP-7DK	TS-930
PNP-7DK2	TS-520
PNP-8MK	TS-480
PNP-5D	FT-980
PNP-8DI	ICOM ACC JACK

A plug-and-play cable is not needed if your radio is not listed.

The ARB-704 is supplied with the following:

1. One power connector cord and plug with red wire (+12 Volts) and black wire (- and ground).

2. Three phono (RCA) cord with connectors on each end. These cables are for relay, ALC and amplifier control lines.

won't be able to switch fast enough. Unlike noisy mechanical vacuum relays, the QSK-5 is extremely quiet -- there's no relay chatter keeping you from enjoying QSK.

You won't have to pay for QSK again if you buy another amplifier. Unplug the QSK-5 and use it with your new amp.

Handles 2500 Watts PEP and 2000 Watts CW in normal amateur service when SWR is below 1.5:1. Handles 750 Watts on continuous carrier modes such as RTTY, SSTV, and FM. Optional cooling fan (CF-5, \$39.95) allows sustained operation at 1500 Watts in any mode. Use with positive voltage keying up to +25 Volts. 6Dx4Hx9 1/2 W".

Internal QSK Available for the following AMERITRON models: AL-80B, AL-1500, AL-1200, AL-82, AL-800, and AL-800H. Contact Ameritron for installation details on the QSK-5PC internal switch.

Tune-up your linear amplifier perfectly without overheating, tube damage, power supply stress, arc over...



ATP-100
\$49⁹⁵
Suggested Retail

The ATP-100 Amplifier Saver™ lets you safely tune up your linear amplifier perfectly for full power output and best linearity.

It protects your expensive amplifier from overheating, tube damage, power supply stress and arc-over during tune-up. It prevents premature failure and costly component replacements.

AMERITRON's innovative pulse tuning technology lets you tune your amplifier at full peak output power for best linearity. It keeps average power to a low safe level to prevent overheating and power supply

stress.

"Why can't I just tune up at low power to reduce overheating and component stress?" you ask yourself. Well you can... but if you don't re-tune at high power (which causes overheating) you can create severe splatter and abuse your tube grids because of excessive grid current.

If your linear uses tubes that are easily damaged by normal tune-up, the ATP-100 could extend tube life.

"Sniff-out" RFI or TVI caused by rusty guy wires, rain gutters, clotheslines and others by generating full peak power without amplifier damage. Also use to evaluate wattmeters and QSK systems.

Set and forget internal trimpots let you

tailor duty cycle and pulse rate precisely for your rig and amplifier.

Plugs into your rig's CW key jack. Simply press Pulse Tune button and tune your amplifier normally for maximum power output.

Locking Pulse Tune and momentary Carrier Tune buttons. Fully shielded all metal case. 3 1/4" W x 1 1/4" H x 4" D inches. Uses 9 Volt battery. Order ATP-100, \$49.95.



ATP-102, \$59.95. Deluxe version has Duty Cycle and Pulse Rate Controls on front panel for easy performance

testing of wattmeters, QSK systems and other equipment.

<http://www.ameritron.com>

AL-811/AL-811H Specifications:	AL-80B Specifications:	AL-572 Specifications:	AL-800 Specifications:	AL-800H Specifications:
Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 Minimum 2:1 VSWR bandwidth: 15%. Max. drive power permissible: AL-811: 80 Watts; AL-811H: 100 Watts. Typical drive rated output: AL-811: 60 Watts; AL-811H: 75 Watts Output: Typical SSB PEP voice operation: AL-811: 600 Watts, AL-811H: 800 Watts. Typical CW operation: AL-811: 400 Watts; AL-811H: 600 Watts. 1/2 hour PEP two tone test: AL-811: 500 Watts; AL-811H: 650 Watts. 1/2 hour continuous carrier (RTTY): AL-811: 300 Watts input; AL-811H: 400 Watts input. Power Supply: Circuit type: full wave bridge. No load voltage: 1700 Volts. Full load voltage: 1500 Volts. Full load current: AL-811: 550 mA; AL-811H: 650 mA. Regulation: 10%. Maximum draw at rated output: AL-811: 8 A; AL-811H: 10A. AC Input: 120 V, 50/60 Hz (AL-811H) 240 V, 50/60 Hz (AL-811X/AL-811HX). Tubes: Type: (AL-811: 3) (AL-811H: 4) 811A vertically mounted. Continuous dissipation: 65 Watts per tube. Warm-up time: 5 seconds Metering: Multimeter: reads HV and plate current. Grid Meter: Reads PA grid current ALC: Negative going, 0-20 V, adjustable, phono jack *Efficiency SSB (envelope crest): greater than 70% MARS/WARC: Yes, set to the nearest band. Connectors: Relay: engages amplifier when grounded. +12 VDC open circuit and supplies 100 mA when grounded. A built-in back-pulse cancelling diode protects the exciter. RF input: SO-239, 50 Ohm input. RF Out: 50 Ohms with full power into any SWR below 3:1. Power: NEMA 5-15P, 120 Volts. Dimensions: 15 $\frac{1}{2}$ Dx13 $\frac{3}{4}$ Wx8 $\frac{1}{4}$ H inches. Operating Weight: 32 pounds. Shipping Weight: 41 pounds. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details. Third Order IMD at Rated Output: -33 dB.	Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 100 Watts. Typical drive for full power output: 85 Watts. Output: Typical SSB PEP voice operation: 1000 Watts. Typical CW operation: 800 Watts. 1/2 hour PEP two tone test: 800 Watts. 1/2 hour continuous carrier (RTTY): 500 Watts. Power Supply: Circuit type: Full wave voltage doubler. No load voltage: 3000 Volts. Full load voltage: 2700 Volts. Full load current: .450 Amp. Regulation: 10%. Transformer: 26 pounds. Capacitors: 33 uFd total, computer grade. Maximum draw at rated output: 12 Amps. AC Input: 120 V, 50/60 Hz. Tubes: Type: Classic 3-500. Continuous dissipation: 500 Watts. Warm-up time: 5 seconds. Metering: Multimeter: reads HV, forward power, reflected power, SWR, ALC, ALC set. Current Meter: Reads plate and grid current. ALC: True ALC 0-10V negative, front panel adjustable. Efficiency CW: Typically 66% or greater. *Efficiency SSB (envelope crest): Approximately 66% or greater. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: Supplies 100 mA when grounded, built-in back-pulse cancelling diode, protects the exciter. 12 VDC open circuit. RF input: SO-239, 50 Ohm input. RF Out: 50 Ohms with full power into any SWR below 3:1. Power: NEMA 5-15P, 120 Volts. Dimensions: 15 $\frac{1}{2}$ Dx14 $\frac{1}{2}$ Wx8 $\frac{1}{2}$ H inches. Operating Weight: 48 pounds. Shipping Weight: Unit, 54 lbs.; Tube, 3 lbs. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details. Third Order IMD at Rated Output: -35 dB.	Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 100 Watts. Typical drive for full power output: 70 Watts. Output: Typical SSB PEP voice operation: 1300 Watts nominal (7 MHz). Typical CW operation: 900 Watts nominal. 1/2 hour PEP two tone test: 1000 Watts. 1/2 hour continuous carrier (RTTY): 650 Watts. Power Supply: Circuit type: Full wave voltage doubler. No load voltage: 2800 Volts. Full load voltage: 2500 Volts. Full load current: .7 Amp. Regulation: 14% or less. Transformer: 21 pounds. Capacitors: 33 mFd total, computer grade. Maximum draw at rated output: 16 Amps. AC Input: 120 V, 50/60 Hz. Tubes: Type: 572B (x4). Continuous dissipation: 640 Watts. Warm-up time: 5 seconds. Metering: Multimeter: reads HV, forward power, reflected power, SWR, ALC, ALC set. Current Meter: Reads plate and grid current. ALC: True ALC 0-10V negative, front panel adjustable. Efficiency CW: Typically 60% or greater. *Efficiency SSB (envelope crest): Typically 60% or greater. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: Supplies 100 mA when grounded, built-in back-pulse cancelling diode, protects the exciter. 12 VDC open circuit. RF input: SO-239, 50 Ohm input. RF Out: 50 Ohms with full power into any SWR below 3:1. Power: NEMA 5-15P, 120 Volts. Dimensions: 15 $\frac{1}{2}$ Dx14 $\frac{1}{2}$ Wx8 $\frac{1}{2}$ H inches. Operating Weight: 40 pounds. Shipping Weight: 48 lbs. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details. Third Order IMD at Rated Output: -34 dB (below PEP rated output).	Input: Circuit type: Pi-network, resistor attenuated. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: within +20% or -40% of selected band. Max. drive power permissible: 100 Watts. Typical drive for full power output: 70 Watts. Output: Circuit type: Pi/Pi-network output. Typical SSB PEP voice operation: 1250 Watts. Typical CW continuous operation: 1000 Watts. 1/2 hour PEP two tone test: 1000 Watts. 1/2 hour continuous carrier (RTTY): 750 Watts. Power Supply: Circuit type: Full wave voltage doubler. No load voltage: 2600 Volts. Full load voltage: 2300 Volts. Full load current: 1 Ampere. Regulation: 12% or less. Transformer: 32 pounds grain oriented EI lamination. Capacitors: 78 uFd total, high current computer grade. Maximum draw at rated output: 12 Amps. AC Input: 120 V, 50/60 Hz. Tubes: Type: Eimac® 3CX800A7. Continuous dissipation: 800 Watts. Warm-up time: 180 seconds. Estimated life: 6,000 hours ICAS. Metering: Multimeter: reads <i>Peak</i> forward power, <i>Peak</i> reflected power, SWR, ALC threshold, ALC output voltage, and high voltage. Current Meter: Reads plate and grid current. ALC: Negative going, 0-10 Volts, phono jack output, front panel adjustments. Efficiency CW: Approximately 66% or greater. *Efficiency SSB (envelope crest): Approximately 66% or greater. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: Requires contact closure or sink of +12 VDC at 100 mA, back pulse protected, phono jack. RF input: SO-239, 50 Ohm input. RF Out: 50 Ohms with full power into any SWR below 3:1. Power: NEMA 5-15P, 120 Volts. Dimensions: 17 $\frac{1}{4}$ Dx14 $\frac{1}{2}$ Wx8 $\frac{1}{2}$ H inches. Operating Weight: 51 pounds. Shipping Weight: Unit, 59 lbs.; Tubes, 3 lbs. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license. Third Order IMD at Rated Output: -35 dB.	Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: within 20% of center frequency. Max. drive power permissible: 100 Watts PEP. Typical drive for full power output: 55 Watts. Output: Circuit type: Pi/Pi-network output. Typical SSB PEP voice operation: 1500+ Watts. Typical CW continuous operation: 1500 Watts. 1/2 hour PEP two tone test: 1500 Watts. 1/2 hour continuous carrier (RTTY): 1000 Watts. Power Supply: Circuit type: Full wave voltage doubler. No load voltage: 2600 Volts. Full load voltage: 2250 Volts. Full load current: 1.2 Amperes. Regulation: 15%. Transformer: 32 pounds grain oriented EI lamination. Capacitors: 63 uFd total, high current computer grade. Maximum draw at rated output: 13 Amps at 240 VAC. Typical line current at 1500 Watt PEP output: 9 Amps at 240 VAC. Power line current in standby: .5 Amperes at 240 VAC. Tubes: Type: Eimac® (2) 3CX800A7. Continuous dissipation: 800 Watts per tube, 1600 Watts total. Warm-up time: 180 seconds. Estimated life: 8,000 hours ICAS. Metering: Multimeter: reads <i>Peak</i> forward power, <i>Peak</i> reflected power, SWR, ALC threshold, ALC output voltage, and high voltage. Current Meter: Reads plate and grid current. ALC: Negative going, 0-10 Volts, phono jack output, front panel adjustments. Efficiency CW: Typically 65% or greater. *Efficiency SSB (envelope crest): Approximately 65% or greater. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: Engages contact closure or sink of +12 VDC at 100 mA, back pulse protected phono jack. RF input: SO-239, 50 Ohm input. RF Out: 50 Ohms with full power into any SWR below 3:1. Power: NEMA 5-15P, 240 Volts. Dimensions: 17 $\frac{1}{4}$ Dx14 $\frac{1}{2}$ Wx8 $\frac{1}{2}$ H inches. Operating Weight: 52 pounds. Shipping Weight: Unit, 60 lbs.; Tubes, 5 lbs. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Third Order IMD at Rated Output: -35 dB.

* Exact performance measurements may vary due to the accuracy of test equipment and the measurement methods used. (Prices and specifications subject to change without notice or obligation).

AL-82 Specifications:	AL-1200 Specifications:	AL-1500 Specifications:	ALS-600 Specifications:	ALS-500M Specifications:
Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.2:1 Minimum 2:1 VSWR bandwidth: 20%. Max. drive power permissible: 130 Watts. Typical drive rated output: 100 Watts Output: Typical SSB PEP voice operation: 1500 Watts. Typical CW continuous operation: 1500 Watts. 30 second PEP two tone test: 1800 Watts plus. 1/2 hour PEP two-tone test: 1800 Watts. Power Supply: Circuit type: full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: .8 Amp. Regulation: 10% or better. Transformer: 32 lb Hypersil®. Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 13 Amps. AC Input: 240 V, 50/60 Hz. Tubes: Type: 3-500 Classic (2). Continuous dissipation: 1000 Watts. Warm-up time: 5 seconds. Metering: Multimeter: Plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads PA grid current ALC: Negative going, 0-20 V, phono jack. Efficiency CW: 65% typical. *Efficiency SSB (envelope crest): 62% typical. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: engages amplifier when grounded. +12 VDC open circuit and supplies 100 mA when grounded. A built-in back-pulse cancelling diode protects the exciter. RF input: SO-239, 50 Ohm input. Power: NEMA 6-15P, 240 Volts. Dimensions: 18½"Dx17Wx10H inches. Operating Weight: 76 pounds. Shipping Weight: Unit, 50 lbs.; Tubes, 6 lbs.; Transformer, 35 lbs. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details. Third Order IMD at Rated Output: -34 dB at 1500 Watts Output.	Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.2:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 130 Watts. Typical drive for full power output: 90 Watts. Output: Circuit type: Pi-L. 1/2 hour PEP two tone test: 1800 Watts. 30 second PEP two tone test: 1800 Watts plus. Power Supply: Circuit type: Full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: .8 Amp. Regulation: 10% or better. Transformer: 32 lb. Hypersil®. Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 13 Amps. AC Input: 240 V, 50/60 Hz. Tubes: Type: Eimac® 3CX1200A7. Continuous dissipation: 1200 Watts. Warm-up time: 5 seconds. Metering: Multimeter: Reads plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads grid current. ALC: Negative going, 0-20 Volts, adjustable, phono jack. Efficiency CW: 65%. *Efficiency SSB (envelope crest): 62%. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: Engages amplifier when grounded, +12 VDC open circuit and supplies 100 mA when grounded, built-in back-pulse cancelling diode protects the exciter. RF input: SO-239, 50 Ohm input. Power: NEMA 5-15P, 240 Volts. Dimensions: 18½"Dx17Wx10H inches. Operating Weight: 77 pounds. Shipping Weight: Unit, 50 lb., Tube, 5 lb., Transformer 35 lb. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details. Third Order IMD at Rated Output: -34 dB at 1500 Watts output.	Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 100 Watts. Typical drive for full power output: 65 Watts. Output: Circuit type: Pi-L. 1/2 hour continuous carrier: 1500 Watts. 30 second continuous carrier: 2500 Watts plus. 1/2 hour PEP two tone test: 2500 Watts plus. 30 second PEP two tone test: 2500 Watts plus. Power Supply: Circuit type: Full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: 1 Amp. Regulation: 10% typical. Transformer: 32 lb. Hypersil®. Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 15 Amps. AC Input: 240 V, 50/60 Hz. Tubes: Type: Eimac® 3CX1500/8877. Continuous dissipation: 1500 Watts. Warm-up time: 180 seconds. Metering: Multimeter: Reads plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads grid current. ALC: Negative going, 0-20 Volts, adjustable, phono jack. Efficiency CW: 65%. *Efficiency SSB (envelope crest): 62%. MARS/WARC: Yes, set to the nearest amateur band. Connectors: Keying: Engages amplifier when grounded, +12 VDC. 100 mA when grounded, built-in back-pulse cancelling diode protects the exciter. RF input: SO-239, 50 Ohm input. Power: NEMA 6-15P, 240 Volts. Dimensions: 18½"Dx17Wx10H inches. Operating Weight: 77 pounds. Shipping Weight: Unit, 50 lb., Tube, 3 lb., Transformer 35 lb. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details. Third Order IMD at Rated Output: -36 dB.	Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5 to 30 MHz continuous. Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 100 Watts. Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 600 Watts PEP. Typical CW operation: 500 Watts. Power requirement for amplifier: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp. Output devices: Power MOSFET (4) MRF-150. Metering: Amplifier-Cross-needle meter for VSWR, Forward, reflected true peak indicating wattmeter. ALC: Negative going 12 VDC, adjustable, RCA phono jack. Efficiency CW: 50%. Efficiency SSB: (envelope crest) 55%. MARS/WARC: Yes, continuous coverage. Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack. Power Supply connector: Beau multi-contact male chassis mount. RF Connectors: SO-239 for input and output. Dimensions: 12Dx9½"Wx7½"H inches. Operating Weight: 12.5 lbs. Shipping Weight: 18 lbs. (amp only). Third Order IMD at rated Output: -35 dB PEP or better.	Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5 to 30 MHz continuous. Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 60 Watts. Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 500 Watts PEP. Typical CW operation: 400 Watts. Power requirement for amplifier: 14-16 VDC, 80 Amps (peak). Output devices: Transistor, (4) 2SC2879. Metering: Current meter, 0-100 Amp. ALC: None. Efficiency CW: 40%. Efficiency SSB: (envelope crest) 45%. MARS/WARC: Yes, continuous coverage. Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack. Power Supply connector: Beau multi-contact male chassis mount. Power Supply Cable: 8 foot pre-wired with Beau connector on one end; other end with 5/8 inch ring lugs, 10 gauge wire (x2), in line fuse holders, fuses included. RF Connectors: SO-239 for input and output. Dimensions: 15½"Dx8½"Wx3½"H inches. Operating Weight: 7.5 lbs. Shipping Weight: 12 lbs. Third Order IMD at rated Output: -35 dB PEP or better.
			ALS-600PS Power Supply Specifications:	ALS-600SPS Switching Power Supply Specs:
			Line Input: 120 VAC/240 VAC. Output: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp. Metering: Cross-needle for volt/amp. Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-600 amplifier. Dimensions: 12Dx9½"Wx6H inches. Operating Weight: 32 lbs.* Shipping Weight: 37 lbs.* AC Line Connector: NEMA-5-15P.	Line Input: 120 VAC/240 VAC. Output: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp. Metering: Cross-needle for volt/amp. Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-600 amplifier. Dimensions: 14½"Dx9Wx6H inches. Operating Weight: 10 lbs.* Shipping Weight: 15 lbs.* AC Line Connector: NEMA-5-15P.

* Exact performance measurements may vary due to the accuracy of test equipment and the measurement methods used.
(Prices and specifications subject to change without notice or obligation).

AMERITRON EXTENDED WARRANTY PLAN



Mike Enis, KB5YJF, Ameritron's manager of 13 years, shows a customer a tuned input sub-assembly for an Ameritron AL-1500 amplifier during a recent visit.

Ameritron's extended warranty plan is the same as the original warranty, just extended for the amount of months described on your purchase invoice.

The extended warranty warrants to the purchaser that if the product should fail during the agreed term, Ameritron has the option to repair or replace part (s) except tube and output transistors) and provide necessary labor free of charge.

Warranty repair can only be done at the Ameritron facility. Purchaser must return defective product to Ameritron prepaid in its original packing or equivalent. Ameritron is not responsible for any loss or damage due to shipping.

WHAT IS COVERED

Necessary labor done at the Ameritron facility to repair the product back to specifications. Electrolytic capacitor. Chip capacitors. Mica capacitors. Ceramic capacitors. Air tuning capacitors. Transformers. Coils. Resistors. Meters. Switches. Chokes. Sockets. Tube caps. Insulators. Transistors (except final RF

Amp Model #	1 Year ext. Warranty	2 Year ext. Warranty
AL-1500	\$129.00	\$250.00
AL-1200	\$129.00	\$250.00
AL-82	\$124.00	\$2408.00
AL-572	\$89.00	\$160.00
AL-80B	\$89.00	\$160.00
AL-800	\$89.00	\$160.00
AL-800H	\$129.00	\$249.00
AL-811	\$69.00	\$129.00
AL-811H	\$79.00	\$149.00
ALS-600	\$69.00	\$129.00
ALS-500M	\$49.00	\$95.00
ATR-30	\$29.00	\$55.00

output transistors). Diodes. IC. Regulators. Rectifier. Relays. Fans. Fuse Holders. PC Board (if not repairable). Connectors. Internal Wiring. Internal

Coax. Return shipping and labor for replacing tubes or final RF output transistors. (Tube and RF output transistors are not covered under warranty). Return shipping (within the United States at Ameritron's choice of shipping) with insurance at replacement cost is covered for services listed under "What is covered".

WHAT IS NOT COVERED

Repairs done by unauthorized Ameritron facility. Returning of product to Ameritron facility. Shipping and labor to replace light bulbs and fuses accessible by the owner. Parts damaged due to shipping damage. Parts damaged due to misuse, neglect, intentional, accidental or improper installation. Cosmetic defects, dents, scratches, peeling, rusting, corrosion and chips. Maintenance and cleaning. Flood, fire, lightning and any other act of nature. PA tubes and RF Output Transistors (shipping and labor are covered). Unauthorized modifications made to the product. Returning of product with no problem detected. RETURN shipping is NOT covered on products sent in for services listed under

"What is NOT covered".

HOW TO USE THE EXTENDED WARRANTY PLAN

Contact Ameritron's

Service Facility by phone, fax, mail or e-mail as soon as the problem occurs.

The following information will be required when contacting Ameritron: Extended Warranty Plan Invoice Number, Extended Warranty Plan Number, Product Model Number, Serial Number of product and a brief description

of the problem.

Return defective product to Ameritron Service Facility, with insured prepaid postage in its original packing or equivalent (original packing can be purchased from Ameritron). Ameritron is not responsible for loss or damage during shipping. Enclose a brief description of the problem with a return address and telephone number. **Contact factory before shipping.**

Ship to address: **Ameritron, 116 Willow Road, Starkville, MS 39759.**

HOW TO PURCHASE

If your Ameritron product is still within its original warranty: Contact Ameritron by phone, fax, mail or e-mail with model of product, serial number, date of purchase and dealer purchased from.

If your Ameritron product was purchased used or is out of its original warranty: The Ameritron product will need to be sent to Ameritron's production facility pre-paid shipping for evaluation. The owner agrees to pay for return shipping charges, necessary parts and labor to put the product back to the original Ameritron specifications. Ameritron has the right to not provide Extended Warranty Plan. **1-800-713-3550 or 1-662-323-8211 Ameritron direct. Fax: 1-662-323-6551; e-mail: ameritron@ameritron.com**

**For your nearest AMERITRON dealer: Call 1-800-713-3550
Catch us on the Web!**

<http://www.ameritron.com>

For Technical Information: Call (662) 323-8211

INFORMATION:

AMERITRON products are distributed by many fine Ameritron dealers worldwide. For dealers in Canada and other countries, please contact AMERITRON sales information line, 1-800-713-3550.

SALES:

AMERITRON, 116 Willow Road, Starkville, MS 39759, USA.
Call 1-800-713-3550 for parts orders or a dealer nearest you.

TECHNICAL:

AMERITRON, 116 Willow Road, Starkville, Mississippi, 39759, USA.

WARRANTY:

All products manufactured by AMERITRON have a one year limited warranty. Ameritron's AL-80B amplifier carries a two year limited warranty. *All transmitter tubes are warranted by the tube manufacturers.

Prices and specifications subject to change without notice or obligation. *Except as noted.
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AMERITRON RCS-4 Remote Coax Switch

Now covers 6 Meters . . . improved relays . . . Greater Power Handling!



RCS-4
\$139
Suggested
Retail

Ameritron RCS-4 is a remote controlled coax switch that selects 1 of 4 outputs by supplying all control voltages through the coax.

Elimination of control cables gives you a fast, neat and inexpensive installation -- only 1 coax line for 4 antennas.

You get two units -- the switching box (5 $\frac{3}{8}$ Dx7Wx3H inches.) that can be tower, mast or wall mounted and the control console (6 $\frac{1}{8}$ Dx5 $\frac{1}{4}$ Wx3 $\frac{3}{8}$ H inches.) that is located at your operating station.

The attractive indoor console has bright LED antenna selector indicators.

A steel enclosure provides 100% shielding to prevent RFI and TVI.

Switching time is 50 milliseconds.

Teflon[®] SO-239 connectors provide reliable connections.

The weatherproof switching box uses three heavy duty 16 ampere hermetically sealed relays on a rugged G-10 fiberglass circuit board.

Quality components are used throughout the entire unit to ensure maximum life for the sometimes difficult-to-reach switching box.

RCS-4 operates 120 VAC. RCS-4X for 220/240 VAC. RCS-4 allows safe operation with 14 Volts control voltage.

Frequencies 1.5 - 100 MHz are covered by this excellent station accessory. Handles over 2.5 kW.

Specifications:

4 pos.;

Loss at 30 MHz less than 0.1 dB; VSWR is under 1.25:1, 1.5-60 MHz;

Impedance: 50 Ohms;

Power: >2.5 kW average continuous.

*Lightning Protected
model RCS-4L, \$179*

AMERITRON Inrush Current Protector stops damaging inrush current *Protects your amplifier, tubes and power supply components . . .*



ICP-120 or
ICP-240

\$79
Suggested
Retail

When you first turn on your amplifier, a massive inrush current gushes in.

House lights flicker as you hear a loud "thump" from your amp.

This terrible inrush current stresses all your power supply components to their limits. Your cold tube filament suffers abusive thermal shock. Eventually this massive inrush current will damage your amplifier.

Ameritron's Step-Start Inrush Current Protector[™] stops damaging inrush current.

By starting your linear amplifier

through a high power current limiting resistor and then shorting the resistor with a relay, the start-up sequence is easier on tube and power supply components.

All Ameritron kilowatt amplifiers have this critical protection. Now you can add this protection to your amplifier without complicated wiring -- you don't even have to take the cover off.

Simply plug your amplifier power cord into the *Ameritron Inrush Current Protector[™]*. Limiting heavy inrush current to a safe, low level, you get a longer lasting amplifier.

You might avoid replacing

expensive tubes and components. Avoiding just one repair job could pay for this extended protection.

Momentary high-voltage "spikes" in the AC line can also cause damage to your amplifier. The ICP-120/240 has built-in varistors to absorb these spikes before they can cause damage. Works with nearly all linear amplifiers.

Ameritron ICP-120, \$79, for 120 Volt wired amplifiers.

Limits current to 12 Amperes during heavy draw inrush period. 20 Amperes during continuous operating current.

Ameritron ICP-240, \$79, for 240 Volt wired amplifiers.

ARF-1000 RF Filter . . . \$159

Use with transceiver or amplifier that produces unwanted harmonics. Frequency select switches to 1 of six different ranges, 1.5-30 MHz. When the filter is selected it reduces harmonics above cut-off frequency. Handles 1 kW SSB input power, 600W CW or 400W RTTY. SWR less than 1.3:1 on all ham bands. SO-239 in/output. 5 $\frac{1}{2}$ Wx3 $\frac{1}{2}$ Hx9 $\frac{1}{2}$ D in.



Add-on Electronic Bias System . . . \$39⁹⁵ for AL-80A/82/1200/1500 Amps

EBS-1, \$39.95. EBS reduces heat by reducing quiescent current to low values during periods when exciter output falls below 100 mW. Features remote detector board.

EBS-1H, \$49.95, for other amplifiers. Call 662-323-8211 for details.



GOP-100 Grid Overload Protection Module . . . \$39⁹⁵

This Grid Overload Protection module protects your amplifier tube from excessive grid current. Fast-acting electronic circuit rapidly disables the amplifier if excessive grid current condition occurs. Easy to install inside your Ameritron amplifier. Factory installation also available. Call 662-323-8211 for more details.



AMERITRON is an authorized *Eimac[®]* Tube Distributor . . .

• Taylor 3-500G - \$189.95 • Eimac[®] 3CX1200A7 - \$795.00 • Eimac[®] 3CX1500A7/8877 - \$849.00 • Eimac[®] 3CX800A7 - \$559.00 • 811A - (1) - \$17.95; (2 match) - \$39.95; (3M) - \$59.95; (4M) - \$79.95 • 572B (1) - \$39.95

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AMERITRON Automatic Remote Antenna Coax Switch

Automatically switches and selects 8 pre-programmed antennas using 3/4 line BCD or 1 of 8 outputs

The RCS-12 is an automatic control box used for switching remote antenna relays. Ameritron's new antenna switch is designed to work with most Icom, Yaesu, Kenwood and other transceivers that have a band data output line.

It will work with any relay box with up to eight positions with voltages from 12 to 30 Volts DC. The RCS-12 relay control has an output of 1 of 8; 3 line BCD or 4 line BCD.

The switch reads information from the transceiver and selects pre-programmed antennas automatically. Programming is as easy as a push of a button.

FEATURES:

RCS-12 can remember multiple antennas for one band, but selects the last anten-



RCS-12C
\$229
Suggested Retail
New!

na used for that band.

It has a manual/automatic switch that will allow manual selection of antennas as well. It has eight LEDs to indicate which antenna is selected.

RCS-12 will not allow antennas to switch while transmitting. A user programmable delay is used to give the relays enough time to switch to protect the trans-

ceiver from "Hot switching".

The RCS-12C features . . . a linear amplifier buffered relay line that prevents the amplifier from operating during an antenna changeover . . . an auxiliary input port that allows the switch box to be operated from a remote location . . . an auxiliary output for controlling other devices in 1 of 8 format . . . and auto, manual, and transmit indicator LEDs. Measures 8 1/4"Wx2 3/4"Hx7"D inches, weighs 1.5 lbs.

RCS-12, \$299, auto controller with 8 coax relay box, to 60 MHz.

RCS-12L, \$339, auto controller with 8 coax relay box, to 60 MHz, with lightning arrestors.

RCS-12C, \$229, Automatic Remote Antenna Switch Controller only. Compatible with RCS-8V/RCS-10 outdoor relay boxes.

RCS-8V HF to VHF/UHF Remote Coax Switch



RCS-8V
\$149
Suggested Retail

Ameritron's Remote Coax Switch lets you remotely switch up to five separate antennas using one inexpensive small control line (like

standard telephone wire) -- Eliminate a tangle of troublesome coax and have a simple and neat installation -- with just a single

coax feedline.

The RCS-8V consists of two units -- the weatherproof switching box that mounts on your tower or mast and the control unit that's placed at your operating station.

VSWR is less than 1.2 from DC to 250 MHz and less than 0.1 dB loss at 150 MHz -- if you operate HF/VHF/UHF, the RCS-8V is for you.

It handles over 5 kW below 30 MHz and 1 kW at 150 MHz. You can ground unused positions or leave them open.

The indoor control unit is all metal to prevent RFI and TVI. It also has LEDs to indicate the antenna you've selected.

A Lexan scratch proof front panel has a markable surface for labeling your antennas.

RCS-8V operates from a 120 VAC power source or RCS-8VX for 220/240 VAC. Use

any 6 conductor control line (not supplied) and allows safe operation with 14V control voltage.

RCS-8VN, \$159. Same as RCS-8V but has N-type connectors instead of SO-239.

SPECIFICATIONS:

Number of antenna positions: 5. **Loss at 150 MHz:** less than 0.1 dB. **VSWR:** under 1.2:1 from DC to 250 MHz. **Impedance:** 50 Ohms. **Power Capability:** >5 kW below 30 MHz, 1 kW at 150 MHz. **Power requirements:** 120 VAC, 50/60 Hz at five watts.

Connectors: Teflon[®] SO-239 for RCS-8V; "N" for RCS-8VN.

Control Box: 6Dx6 1/8"W x2 1/4"H inches.

Switch Box: 5 1/8"Dx7Wx3H inches.

New Lightning Protected New
model RCS-8VL, \$189

AMERITRON RCS-10 Remote Coax Switch with 8 positions



RCS-10
\$159
Suggested Retail
Ameritron's RCS-10 remote coax switch selects one of eight antennas using an inexpensive three or four conductor control line (such as standard telephone wire).

Eliminate a tangle of troublesome coax and have a simple and neat installation -- with just a single coax feedline.

The RCS-10 consists of two units -- the weatherproof switching box that mounts on your tower or mast and the control unit that's placed at your operating station.

Outdoor Unit Features:

Inexpensive and simple wiring: selects up to eight antennas using one four conductor telephone type control line.

High Power Capability: The RCS-10 relay box will handle over 5 kW into matched loads below 30 MHz.

Long Relay Life: UL/CSA/VDE approved sealed relays with 16 ampere switching current rating. Tested to withstand 1200V RMS.

Flexible Mounting: RCS-10 hardware accepts mast sizes from 1 inch to 2 1/4 inches.

Reliable Connectors: Teflon UHF-style SO-239 females, internal barrier strip for control lines. **Low Voltage:** Requires 10-15 Volts at less than 300 mA.

Number of Antenna Positions: 8. **Frequency Coverage:** DC to 100 MHz. **VSWR:** Under 1.25:1 below 30 MHz; Under 1.3:1 below 60 MHz; Under 1.8:1 below 150 MHz. **Impedance:** 50 Ohms. **Power**

New Lightning Protected New
model RCS-10L, \$199

Capability: >5 kW into 50 Ohms below 30 MHz. **Power Requirement:** RCS-10, 10-15 VDC or 120 VAC with AC adaptor supplied. RCS-10X, 10-15 VDC or 230 VAC with AC adaptor supplied.

Relay Switch Control Line: 4 conductors telephone-type cable, not supplied. **Relay Control Line Voltage:** 10-15 VDC at less than 300 mA.

Flexible Control Box with External Interface: Accepts and outputs one-of-eight and outputs three-line BCD data to remote relay unit. **Highly Weather Resistant:** Sealed relays, stainless hardware, and U-V resistant cover. **Easy-to-Read Antenna Indicators:** Eight wide-spaced LED's indicate the selected antenna.

Dimension: Control Box: 6 1/4"Wx3 1/4"Hx4 5/8"D inches.

Bulk Rate
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39759
Permit No. 19

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